

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: CORELITE

Report Number: P601243

Luminaire Tested: 14D3X-LP-45-L930

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601243
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-104-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/6/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 14D3X-LP-45-L930
Description: 1x4 D3X-LP AT 4500lm 3000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

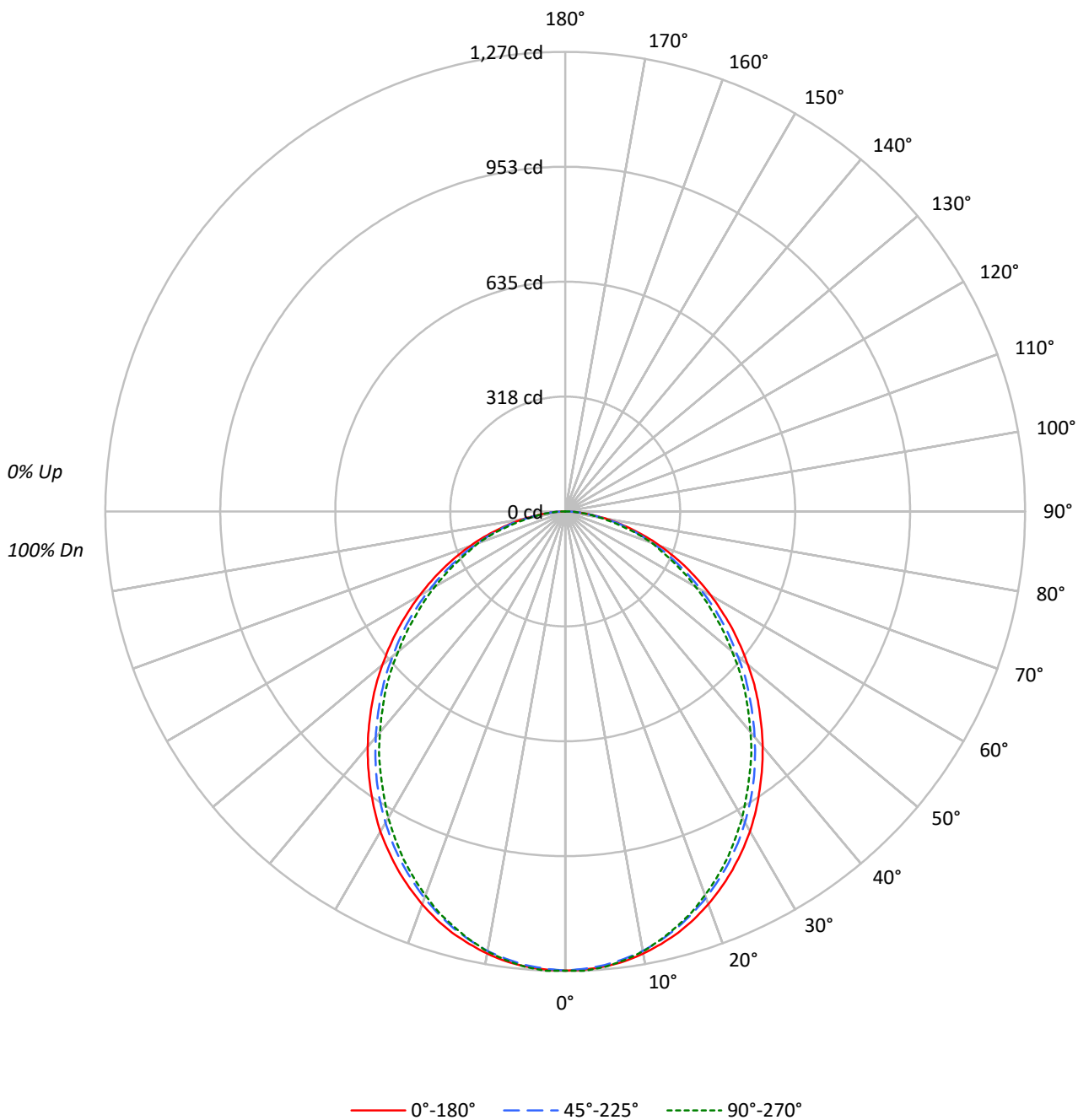
Lumens per Lamp: N/A
Luminaire Lumens: 3139.0 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.27
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 42.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3414	3414	3414
5°	3410	3398	3412
10°	3390	3370	3375
15°	3358	3321	3309
20°	3307	3255	3232
25°	3245	3177	3142
30°	3173	3083	3037
35°	3078	2980	2915
40°	2981	2859	2796
45°	2874	2736	2670
50°	2758	2602	2519
55°	2638	2479	2374
60°	2502	2328	2235
65°	2360	2181	2087
70°	2195	2033	2007
75°	1974	1880	1743
80°	1740	1624	1497
85°	1402	1402	1377

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2874 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.6	3.8
10°-20°	336.6	10.7
20°-30°	493.6	15.7
30°-40°	568.5	18.1
40°-50°	557.8	17.8
50°-60°	474.6	15.1
60°-70°	343.2	10.9
70°-80°	191.7	6.1
80°-90°	53.4	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	949.7	30.3
0°-40°	1518.2	48.4
0°-60°	2550.7	81.3
0°-90°	3139.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3139.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1269	1269	1269	1269	1269	
5°	1262	1262	1258	1262	1263	120
15°	1205	1201	1192	1190	1188	340
25°	1093	1084	1070	1062	1058	503
35°	937	925	907	893	887	586
45°	755	740	719	705	702	583
55°	562	547	528	514	506	502
65°	371	361	343	329	328	367
75°	190	187	181	170	168	204
85°	45	48	45	45	45	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1268.8	1268.8	1268.8	1268.8	1268.8
2.5°	1267.1	1267.1	1264.7	1269.6	1270.5
5°	1262.2	1262.2	1258.1	1262.2	1263.0
7.5°	1253.9	1252.3	1247.3	1250.6	1250.6
10°	1240.7	1239.1	1233.3	1234.1	1235.0
12.5°	1224.2	1221.7	1214.3	1213.5	1212.7
15°	1205.2	1201.1	1192.0	1190.4	1187.9
17.5°	1182.1	1176.3	1165.6	1163.1	1161.5
20°	1154.9	1147.5	1136.7	1130.9	1128.5
22.5°	1125.2	1116.9	1103.7	1097.9	1094.6
25°	1093.0	1083.9	1069.9	1061.6	1058.3
27.5°	1057.5	1047.6	1032.7	1022.0	1017.8
30°	1021.1	1008.8	992.3	981.5	977.4
32.5°	979.9	966.7	951.0	937.8	932.0
35°	936.9	924.6	907.2	893.2	887.4
37.5°	893.2	881.6	861.0	848.6	844.5
40°	848.6	835.4	813.9	799.1	795.8
42.5°	801.6	790.0	766.1	753.7	747.9
45°	755.3	740.5	719.0	705.0	701.7
47.5°	708.3	691.8	672.8	657.1	653.0
50°	658.8	643.9	621.6	607.6	601.8
52.5°	610.0	596.8	574.6	558.9	554.7
55°	562.2	547.3	528.3	513.5	506.0
57.5°	511.8	500.3	480.4	466.4	460.6
60°	464.8	451.6	432.6	421.0	415.2
62.5°	416.9	403.7	388.0	375.6	370.7
65°	370.7	360.7	342.6	329.4	327.7
67.5°	324.4	316.2	300.5	287.3	288.1
70°	279.0	271.6	258.4	250.1	255.1
72.5°	236.1	232.0	217.1	211.3	213.8
75°	189.9	187.4	180.8	170.1	167.6
77.5°	151.1	152.7	145.3	132.1	128.8
80°	112.3	116.4	104.8	100.7	96.6
82.5°	77.6	83.4	73.5	70.2	68.5
85°	45.4	47.9	45.4	44.6	44.6
87.5°	19.0	22.3	22.3	23.1	23.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)